

In the Claims

1. (Previously presented) A system for recovering a database table comprising:
a database table recovery system, the database table recovery system operable to retrieve a backup copy of a tablespace and to apply updates to the backup copy from a log associated with a database table, and to restore the database table associated with the tablespace from the updated backup copy without recovering the tablespace; and
a tablespace access system coupled to the database table recovery system, wherein the tablespace access system is operable to restrict access to the tablespace to read-only access.
2. (Previously presented) The system of claim 1 wherein the database table recovery system further comprises a log record sorter system operable to sort log records from the log.
3. (Previously presented) The system of claim 2 further comprising:
a data page updater system coupled to the log record sorter system operable to apply the log record updates to the backup copy.
4. (Previously presented) The system of claim 3 further comprising:
a data page scanner system coupled to the data page updater system, the data page scanner system operable to locate page rows associated with the database table in at least one data page.

5. (Currently amended) A system for recovering a database table comprising:

a database table recovery system, the database table recovery system operable to retrieve a backup copy of a tablespace and to apply updates to the backup copy from a log associated with a database table, and to restore the database table associated with the tablespace from the updated backup copy without recovering the tablespace, the database table recovery system comprising a log record sorter system operable to sort log records from the log;

a tablespace access system coupled to the database table recovery system, wherein the tablespace access system is operable to restrict access to the tablespace to read-only access;

a data page updater system coupled to the log record sorter system and operable to apply the log record updates to the backup copy;

a data page scanner system coupled to the data page updater system and operable to locate page rows associated with the database table in at least one data page; and

a page row extractor system coupled to the data page scanner system and operable to extract the page rows from the at least one data page that has been located by the data page scanner system.

6. (Currently amended) A system for recovering a database table comprising:

a database table recovery system, the database table recovery system operable to retrieve a backup copy of a tablespace and to apply updates to the backup copy from a log associated with a database table, and to restore the database table associated with the tablespace from the updated backup copy without recovering the tablespace, the database table recovery system comprising a log record sorter system operable to sort log records from the log;

a tablespace access system coupled to the database table recovery system, wherein the tablespace access system is operable to restrict access to the tablespace to read-only access;

a data page updater system coupled to the log record sorter system and operable to apply the log record updates to the backup copy;

a data page scanner system coupled to the data page updater system and operable to locate page rows associated with the database table in at least one data page;

a page row extractor system coupled to the data page scanner system and operable to extract the page rows from the at least one data page that has been located by the data page scanner system; and

a table row inserter system coupled to the page row extractor system and operable to write the extracted page rows to the database table.

7-11. (Previously canceled).

12. (Previously presented) A method of recovering a first database table that depends on a tablespace, said method comprising:

receiving a backup copy of a tablespace having data for one or more database tables;
reading log records associated with a first database table of the one or more database tables;

applying the log records to the backup copy without recovering the tablespace;

building new table data pages from the backup copy;

scanning the new table data pages for records of the first database table; and

updating the first database table from the records.

13. (Original) The method of claim 12, further comprising:
limiting access of a second table to the tablespace to read-only before the first table is updated, wherein the second table depends on the tablespace.

14. (Original) The method of claim 13, further comprising:
providing update access to the second table after the first table is updated.

15. (Original) The method of claim 12, further comprising sorting the log records.

16. (Original) The method of claim 12 wherein the first table, comprises rows and indices, the method further comprising:
deleting the rows; and
locking out the indices.

17. (Previously presented) A method for recovering a database table that depends on a tablespace, said method comprising:

receiving a backup copy of a tablespace having data for one or more database tables;
reading log records associated with a first database table of the one or more database tables;

applying the log records to the backup copy without recovering the tablespace;
building one or more table data pages from the backup copy having the log records applied;

selecting one or more records from the one or more database table data pages, the one or more records belonging to the first database table; and

updating the first database table with the one or more records selected from the one or more table data pages, while allowing access to the rest of the one or more database tables in the tablespace,

wherein the first database table can be recovered without having to recover the tablespace.

18. (Previously presented) The method of claim 17, further comprising:
allowing said at least one of the one or more database tables to have update access to
the tablespace when the first database table is restored.

19. (Previously presented) The method of claim 17, further comprising:
deleting all of the rows of the first database table; and
locking out access to indices of the first database table.

20. (Previously presented) The method of claim 17, wherein applying log records
to the tablespace backup copy further comprises:
reading the log records from a log record file to a log record workspace;
sorting the log records; and
applying the log records to the tablespace backup copy.